NUMBER 276.

The Great Plaster Beds of Grand River Valley

THEY ARE WORKED

History of the Industry From the Discovery of the Beds to the Present Time.

Fur traders and missionaries as far back as 1827 were cognizant of the fact Plaster creek. An Indian chief by the a stucco finish put on the gable ends name of Noonday had found a plaster rock, which he showed to Mr. McCoy, a teacher in the Slater mission, which a teacher in the Stater mission, which of calcimining gypsum, a process which stood near the point now indicated by has coined thousands of deliars for the junction of West Bridge and South those engaged in the plaster business. Front streets. Nothing was known at that time of its great extent and value, ground in an Indian corn mill. He but in the year 1838 Dr. Douglas then boiled it in a cauldron, when it Houghton, the state geologist, who was became stucco fit for use. He placed sent here to select a point for sinking it first in the form of mouldings about the circular windows in the gable of the Campan house. The stuff fell off report that led to the development of and Mr. Clark tried it again with better the Grand Rapids plaster beds. The development and manufacture were begun in 1841 by Warren Granger and Five years previous to that time Daniel on Plaster creek, two miles south of the city. The output of the mill the first week was forty tons, which was sold at the mill for \$1 per ton. Wheat, pork and other produce were received. pork and other produce were received in exchange for it, the sales not being in exchange for it, the sales not. Ball limited to cash customers. Mr. Ball year 1841. A new use for the virgin soon sold his interest in the mill to stone was formed in building. The Henry R. Williams, who did much to create a market for the article by his enthusiasm in making its ments known.

Other Mills Established. He conducted the mill several years, selling it in 1852 to E. B. Morgan and brightly but it does not prove durable. Noves L. Avery who assumed the firm Walks have been made of it but the Noves L. Avery who assumed the firm Walks have been made of it but the name of E. B. Morgan & Co. This stone is too soft to wear well. The mill stood on Plaster Creek near the mill stood on Plaster Creek near the baptismal font in the chapel of St. present crossing of the Grandville road, Mark's courch is constructed of gypand for several years was the only one there. It was a small establishment; but its success and the demand for its tain souvenirs of the ornamental stage product showed the value of the gypsum industry in the form of gypsum deposit, and led to the establishment of their mills. For nearly dishes and other articles both useful thirty years, beginning with 1842, James A. Rumsey was connected with the mill as manager or in other capac-During the winter of 1848-49 the demand for the plaster was greater than the supply, though the mill ran night and day to fill orders. Teams came from points 100 miles distant only to return empty in many cases. In January 1852 shipments by teams southward were exty tons or more daily N. L. Avery & Co. purchased the works afterward, the members of the Wood and Benjamin B. Church. In December 1857 this firm dissolved and was succeeded by Sarell, Wood and Barney Burton under the firm name of Sarell Wood and Barney Burton under the firm name firm being Noyes L. Avery, Sarell of Sarell, Wood & Co. Shortly after Mr. Burton withdrew and was succeeded by Charles A. Todd sum or plaster has been used as a fer-and Abel Thompson.

The Florence Mills, About the year 1860 Freeman and Silas F. Godfrey began operating in value as a fertilizer. In order to force gypsum and in 1864 they, with Amos Rathbone and George H. White, under the name of G. H. White & Co., purchased the old plaster mill property from the proof that he adduced. and a large tract of land extending the presence of a number of them he down to Grand river, along the line of Plaster creek. The new proprietors a Plaster creek. The new proprietors a field of grass on a erected a mill on the river bank, near initiate in the form of large letters the mouth of the creek, and also made extensive additions to and alterations Within a few weeks the grass upon were named the Florence mills, the firm being F. Godfrey & Brother. In a very short time this became an import- Of course there was no escape from so ant manufacturing industry.

The first mill, together with 120 acres of land, has passed into the hands of the Alabastine company, of which M. B. Church is the general manager. Calcined gypsum is produced, the same mills. The old mill has gone out of use as a manufacturing establishment. This completes the early history of the

In the year 1849 Richard E. Butterworth opened the first gypsum quarry on the right bank of Grand river. built a small mill about three miles below the city and carried on a successful manufacture of plaster outil about 1856, when Hovey & Co. purchased the plant for \$35,000. About the time Mr. posits on the right bank of the river two other quarries were opened, one by Adin J. Hinds and the other by John Ball and Bernard Courtney.

The manner in which Mr. Hinds lonote. While a mere boy he assisted in sinking a salt well above Bridge street led him to make a search upon farm later in life, resulting in the finding of a thirteen foot stratum.

Hovey & Co. organized in 1856 and builtamil a year later. They mined about 2,000 tous the first year and the when the Grand Rapids Plaster company was organized and the Eagle mills were erected. The firm comprised Francis Fenner, James W. Converse and Francis K. Faher, all of Boston; Charles H. Stewart of New York and William A. Hovey. The officers were: J. W. Convers, president; S. L. Withey, vice president; C. C. Converse, secretary; William Hovey treasurer

The plaster rock accessible by the Eagle mills lies under the drift, and alternating layers of water lime, clay slate and gypsum. There are four layers of gypsum, the first one being only eight inches deep. The second layer is very thin, the third stratum is even feet deep, and the fourth stratum has a depth of thirteen feet. By the enking of wells several strata of gypsum have been found below this, making in all about fifty feet of the rock, Tunneling and mining has been carried m extensively, and the unner now extend for several miles beneath the mills. Gypsum rock is a beautiful

ne drift, appearing as surface rock as

found at these mills snows the follow- the manufacture is the making Friday, Oct. 5 and 7.

of sodium and potash. The gypsum time wall coating are endless and it strats, which outcrops near this city, makes a beautiful finish. undoubtedly underlies nearly the entire lower peninsula and the supply is therefore practically inexhaustible.

was made by William McCourdand. Alabastine is now being made in it was burned in a killi by the river Canada and England, Mr. Church bebank near Huron street, and was the back as 1827 were cognizant of the fact first burned here. It gave such mats-that gypeum existed near the surface faction that Richard Godfrey, shortly of the ground in the neighborhood of afterward had his house plastered and

Calcining Gypsum Mr. Clark brought to this city the art on interior decoration was done on the old house which stood at the corner of Crescent avenue and Rathbone home on North Division street, and the fronts of several business blocks on Canal street were faced with it. It finished very handsomely the colors and veining standing out sum and it is handsome as well as unique. Many of the old families reand pretty.

The Stucco Trade

The stucco trade is an important one. Grand Rapids stucco is in demand in all the markets as a superior article. About the first shipments of plaster by rail were made in 1859 over the Detroit & Milwaukee railroad. It was the coarse variety known as land plaster and was ing states it reached a large sale as a fer tilizer. Up to the year 1880 two-thirds

For more than a hundred years gypthan Benjamin Franklin. At first farmers were aceptical concerning its conviction upon their minds Mr. Franklin adopted a method at once so practical that there could be no escape plaster on a portion of sowed outlineing the name "B. Franklin." which the plaster was sown had so far outgrown the rest that the letters could

clever a demonstration.

be easily read a long distance away.

Theory of the Fertilizer, Gypsum is a chemical compound of sulphur and lime, and the theory of chemists has been that as the winds mmon's, which has been exhaled from a thousand barnyards and bogs having a stronger affinity for sulphur than lime has, dissolves the gypeum and combines with the sulphur, forming a suphate of ammonia, which is a stimulant to vegetable growth. Whether this theory be erroneous the result obtained is indisputable and no farmer can afford i try it. Strangely enough the good effect is diminished by many and frequent applications, but grassy bulls and s which it has never previously been applied are greatly benefitted by an application. A grass yield is increased one-third by a moderate dressing of it.

The most surprising effects from the use of plaster upon any crop is upon red clover. Clover is a plant which has great power to take ammonia 'ron called the gypsom deposits is worthy of the air and appropriate it to itself and then in its gradual decay, if turned under, so as to prevent its escape of and the talk of the dip of the strata volatile ammonia, will give it up to crops which succeed it; but by the aid of plaster it will take up a far greater amount and thus add greatly to its fertilizing quality. Its beneficial effect up in corp. potatoes and fruit trees is

Exchanged Wheat for Plaster. Years ago the farmer used to come a Kent county for plaster from their their team loads of wheat and returning with their wagons loaded with pigster. In former times much plaster was snipped down the river by boat, whence it was taken by the lake steamers to different points. The railroads, however, have superceded the steamers in earrying the output from the gypeum deposits of Kent county. All of the nile are reached by rail, and cars are saunted up to the null door and loaded. None of the output is now carried by boat, but the plaster men are anxiously awaiting deep water transportation, when water rates may be secured.

Mr. Church's Discussey. One of the most important develop mants of the gypenm industry was the calmused gynesiss could be used on walls like kalsomine. From a small beginning the alchaetine trade has to large proportions Church secured patents on improveequetance, showing every precible shade | ments in compound and in machinery, from white to a deep en mon color, and | and the product met with success the the left bank of the river the ment, which will som he ready, alplaster rock lies but a few fact below lines the alabastice to be mixed with enid water as well as boiling water as for an idea design of the process is the from her attendants. The marriage of Frank II. I have a supplied the found of the process is the from her attendants. The marriage of Frank II. I have a supplied to dislocate it.

The marriage of Frank II. I have a supplied to the process is the from her attendants. The marriage of Frank II. I have a supplied to the process is the from her attendants. The marriage of Frank II. I have a supplied to the process is the from her attendants. The marriage of Frank II. I have a supplied to the process is the from her attendants. The marriage of Frank II. I have a supplied to the process is the from her attendants. The marriage of Frank II. I have a supplied to the process is the from her attendants. The marriage of Frank II. I have a supplied to the supp

Alabastine is made at the old plaster mill on the Grandville road, and large quantities are shipped daily. The price per carload is \$1200, while the Stucco or calcined plaster was an early product of the industry. The cost per carload is \$1200, while the first plastering and laying of brick only \$35. In 1884 a new alarasting chimneys with lime mortar was done in the home of Louis Campau, the nouse then standing at the corner of object being to run in opposition to the Monroe and Waterland and the corner of object being to run in opposition to the house then standing at the corner of object being to run in opposition to the Monroe and Waterloo streets. James Plaster Agency, but the Hall street mill is now in the association. ing interested in both institutions.

then of Calcined Plaster, Calcined plaster is coming into more general use every day. Calcined plas-ter is variously termed plaster of Paris or stucce, not from any difference in he make or grade, but in barmony superceding lime mortar, forming a e hard morter by mixing with sand. used the glass is laid while being ground. The protective policy has largely stimulated the plate glass injustry in this country and as a direct cined plaster. Plate glass is now being manufactured in large quantities at Louisville, Ky., Ellwood, New Albany, Kokemo, Ind., and at and in the vicinity last mentioned and New Albany capital is erecting a new plate glass factory at Alexandria, Ind. The duty on imported glass has been the direct cause of the establishment and increase of the industry. American capital and workmen in general, and Grand Rapids capital and workmen in particular, have been immediately benefited by it. Manufacture of staff.

Another use to which it is being put is in the manufacture of "staff," an article which is being freely used in the construction of the world's fair building, over 100,000 barrels of calcined plaster having already been used by one firm. Staff is a manufactured product, of which the principal ingredients are calcined plaster and fiber. It forms a dense hard substance, which is easily worked into blocks and slabs and these are stained in any shade desired in imitation of marble and stone. It makes a very handsome material, polishes well and is quite durable. Many of the buildings at the Paris exposition were largely constructed of staff. Staff also meets the requirements of another class of workers, being largely used for figures and statuary. Its beauty and cheapness are strong

points in its favor. Grand Rapids plaster is of the best possible quality. The gypsum as it is mined shows many colors, but all shades are lost in calcining and the powder is a clear white, somewhat inclined to a blue tint. The blue tint is a point in its favor, as it yellows less eas- over the house, have been thoroughly ily than the pure white. It is fully The best evidence of the superior qual- double doors open to admit patients on ity of the Grand Rapids gypsum is its a stretcher, up to the fourth story. extensive use and the fact that wherever it comes into competition with any other it commands a better

It Is Not Very Palatable Even to a Hun gry Soldier.

"You never ate horse flesh, I suppose?" said Licut, Russell, of the Seventh United States cavalry, to a St. Louis Globe-Democrat man, "I have seen the time when I ate it with genuine relish, and that, too, without any salt. It was in 1877, during Gen. Miles' Nez Perces campaign. We had followed the renegades up the Missonri to its confluence with the Yellowstone, and the chase was so fast and exciting that we getting until it was drained, and we base of supplies to replenish it. The game had all been driven out of the dians, and when we finally enught up fight we had almost nothing to cat for several days. We captured about seven hundred ponies from the Indians, some of them so round and sleek and fat as to appear to us the finest meat in the world. Our butchers killed the youngest and fattest of the ponies that night after the battle, and as soon as they were skinned and dressed we had a feast that would have made Lucallus turn green with envy. We lived on this pony meat several days. It was cooked without salt and roasted over a had a peculine sweet taste, not at all paintable when I think of it now, and apart in great strings. But it kept us from starving, and I therefore can heartly recommend pony meat to people to dire straits."

AUSTRIAN MARRIAGES.

The Queer Ceremony Attendant Cpon a Foreign Alliance.

The quaint old Austrian custom of a bride being east off, as it were, by her countrymen when she takes to berself a foreign husband, was an interesting feature at the recent marriage of Archduchess Louise of Tuscany. In describing the ceremony the Brooklyn Citizen "The archduchess entered the church followed by a long train of royal and noble Austrian ladies. They stood two, or as often as needed, with a mix- boiled to insure perfect purity. All in a semi-circle around her until the ture of turpentine and parafice. The pans, bases, buckets and articles of a moment the bridegroom placed the ring upon her finger; then they turned and left her, for she was no longer a counterwoman of theirs. For a moment the princess stood alone mattended; then a number of Saxon ladies ranged themselves behind her she had become a Baxon. At the marriage of Marie Antoinette this custom, which in her case was observed only on the French fron-tier, had a pathetic decomment. When the Austrian ladies attempted to leave the Austrian ladies attempted to leave the new daughtness of France she refused to be left and, as if foreseeing what her fate would be in her adopted country, clung to them and entreated them to take her back to Austria again. Actual force had to be used to separate

The New Operating Room of the U. B. A. Home

TO BE THOROUGHLY EQUIPPED

With All Modern Surgical Appliances. The Excellent Operating Room of St. Mark's Hospital.

For some time past the physicians and surgeons at the Union Benevolent Home and Hospital have been greatly hand-capped for want of proper faciliities for surgical and obstricted work. The institution was designed primarily with the idean of the locality. It is as a home for the aged and infirm, and as such lacked the requirements Another and important and increasing for the modern hospital. As a home use to which calcined plaster is being it was admirably arranged, but as a The improvements and additions will put is in the manufacture of plate glass | hospital the defects were many and se. | cost from \$10,000 to \$15,000, but as be for store fronts. It is for a "bedding," upon which operating room, the room used as such supplied with instruments and there is no chance to isolate cases, as the room sions to meet any want in the near future. communicated closely with other result local plaster men are greatly wards and other rooms. The heating benefited by an increasing trade in cal- | was imperfect and costly, the ventilation not what it might be, the elevator was a small, old-fashioned hand-worked the erection of more buildings should machine, and there were other defects. greater facilities for work were demanded. The subject was agitated by a few who had the growth of the hospital near at heart, and last spring it resulted in a plan for an annex. The promoters of the plan worked well and on the building began. The reform began with the basement, where five enormous boilers, running at a great expense, were providing heat. They have all been torn out and will be supplemented by a Huyatt & Smith heat-

ing and ventilating plant. Heating and Ventilation, It consists of one boiler, an engine and one of Huyatt & Smith's large fans. By means of the fan the air is blown over a coil of steam pipes. It is so arranged that part of the air can be wafted over and part under the pipes, or all over or all under. It is a perfect ventilator as well as heater, and in the summer time it may be used to cool the air as the pipes can be filled with cold water and the ventilating fan will send a cool wave along. It cools in summer and heats in winter and is perfectly adjustable. The heat can be regulated to any point between sixty and 160 degrees l'ahrenheit or just

is being burried.

The water closets and plumbing which were more or less defective all overhauled and remodeled. A fine hydraulic power elevator will supplant With all these improvements it would seem that the building would be a model institution so far as sanitation is concerned, but more room is needed. To meet this want the new annex 22x44 feet was planned and is now in the p ocess of erection. It is hoped to have it completed so that possession may be had by the first of the year.

The New Annex The annex will be three stories high with a large, light, airy basement, ten feet to the ceiling. There will be three rooms in the basement, one of which will probably be occupied by the patnological laboratory. The other two will be used by the women of the hospital management. The first floor will be devoted to obstetrics and the three rooms on this floor will form an didn't realize how low our larder was statrical ward. This will be a most destrable arrangement, as it will keep the were getting too far away from the mothers and their crying offering away from the other nospital minates, affording them restful seclusion. country ahead of us by the fleeing In- ing somewhat isolated it can be kept cleaner and sweeter, and in as near a with the redskins and forced them to perfect condition as possible. Commuhad by means of a narrow hall.

nication with the main building will be The triumph of the entire building and the pride of the surgical staff will be the two operating rooms, which will entirely occupy the third floor. The main operating room for abdominal surgery and all severe operations which are not suppurating will occupy the south half of the annex. It will an outside exposure on three sides with three windows in each side and a large skylight overhead, so that plenty of light will come from every point. modern germ theory teaches that all spit, like a barbeened beef. The ment cracks and crevices are favorable for the support and continuation of disease germs which lodge therein and play it was so fibrous that we could pull it | bide-and-seck with the unlucky owner of a gaping wound. In order to meonvenience these little fiends as much as possible no angles will be left in the walls whatever, but all will be softly

the floor and curve again to meet the | cal case. The range of instruments wall: the corners of the room will be there now will cover all ordinary cases, rounded and the door and window case but the supply is not sufficient for all ings will present flat surfaces and corved lines. With a fine bard finished wall the room can be literally flooded in very great. Before each operation with antiseptics and kept in the best the instruments to be used are boiled possible condition. The floor will be of to keep from infection. Georgia pine, which, though thoroughly Hot and cold water is supplied and ond operating room. in short, this carbolic solution in glass pars. as actence can make it. Not even the containing silk of all sizes, from a fine gairanteed metal mouldest, so that not succenflor four days, doing away plates can be taken out to be cleaned | after a wound is healest. and made thoroughly aseptic. The latile is an arranged that water or other two most convenient closets fitted up by manipulation a patient oan be and and one articles popularly at one | will be practically inexhaustible.

The smaller operating room, dubbed "the pus room," because suppurating cases will be operated upon there, will have all the additions of closets, sinks, water, apparatus for plaster caris, instruments, plumbing, etc. It will be constructed upon the same general principles as the larger room. George W. Gay, Thomas D. Gilbert

and Noyes L. Avery of the board of trustees, and Drs. S. C. Graves, J. A. Pressey and F. A. Rutherford of the to enlarge the hospital and increase its facilities. The new annex will be a handsome addition to the main building, which it joins, being of the same style of architecture, solid and sub-stantial. Eleven new rooms are added. and the large amount of space formerly occupied by the boilers may now be room can be used as a ward, the roon being large enough for three beds.

Will Be a Fine Hospital. When completed the U. B. A. will be one of the finest hospitals in the west and there is ample room on the lot for it become necessary. Already the doc-tors are talking of an extra cottage for ity of Pittsbury, Pa. New plate glass factories are being erected in the vicin- has been growing, and more and such as diphtheria, scarlet fever, etc. South of the present building there is room for an additional building of the same dimensions as the original buildog and some day may see a mammoth nospital rise skyward. The present building is crowded much of the time promoters of the plan worked well and and there is always plenty of work for the money was raised before the work the twenty nurses in the training school. This is the seventh year for this department which is recognized as first class in every respect. Miss C. Borden is in charge and she is very efficient. Lectures will soon be re sumed, the schedule having already been partially made out.

All good citizens desire to see the good work prosper. The future of the U. B. A. hospital is one which excites much interest. That the new improvements will result in the actual saving of life cannot be doubted and help extended to the suffering tends to humanize and make even strangers one kin. At present the staff consists of the following:

Management and Staff.

Board of Trustees-Charles Shepard, president; Thomas D. Gilbert, Noyes L. Avery, George W. Gay, John Blodgett, J. H. P. Hughart, Clay H. Hollis-ter, treasurer; Mesdames M. L. Withey, vice president; Wealthy Morris n. An-na Essell; Harry Widdicomb, C. V. C. as wanted in any particular room. The plant will soon be in position as work Stanton, Charles Berkey, secretary. Regular Staff - President, Charles Shepard; vice president, F. A. Ruth-

erford; secretary, Harry Joy. Surgical Division — Consulting sur-geon, J. B. Griswold; visiting surgeons —William Fuller, on duty December, equal in all respects to the cele-brated Nova Scotia gypsum and in many particulars it is superior to go from the basement, where large on duty January. April, July, October: F. J. Groner, on duty February, May,

August, November. Medical Division-Consulting physicians, H. E. Locher, C. E. Patterson Visiting Physicians—W. F. Hake, J. A McPherson, R. H. Spencer.

Obstetrical Division-Consulting obstetricians: J. O. Edie, C. M. Droste, Visiting Obsteticians-O. L. Dales, Besele Earle, C. M. Kelley. Gynecological Division-Consulting gyniecologiets, O. E. Herrick, J. A. De

Visiting Gynacologists-F. A. Rutherford, A. S. Pressey, A. J. Patter-Eye, Ear, Nose and Throat Division-A. Fuller, D. M. Greene.

Dermatological Division-Consulting Pathologist-S. A. Whinery. House Surgeon-H. M. Joy.

Principal of Training School-Miss

St. Mark's Hospital.

When all the praises of the U. B. A. have been sung, the wavfarer need not believe that it is the only first-class institution for the care of the sick now in operation in this city. Rising grandly on the brow of Bridge street hill is St. Mark's hospital, and the needs of surgery are well met in this institution. for it contains one of the finest open ating rooms in the country. great hospitals of Chicago have nothing superior to it. Its particular advantages are its superior location, excellent light and fine tile floor, the latter making possible any amount of scrubbing, thus insuring perfect cleanexacted by the modern surgeon. It is so well equipped with electric lights greater ease at night than during the day, as the light is then adjustable. The room is on the upper floor, far removed from the private rooms and wards, so the patients know and hear nothing of the operations. Its comparative molation prevents the dissem ination of the odor of ansesthetics throughout the building.

Would Like More Instruments.

It is well furnished, though the staff would like some additions to the surg: possible operations. Then, too, the wear and tear on surgical metruments

impregnated with pitch, an antiseptic gas heaters are in constant readiness, in itself, will be covered every week or Ali water used is first nitered, then All water used is first filtered, then edge proper connections will be made | porcelain lined. There is a convenient with the sewer through goose necks, to irrigating apparatus and a complete secure from infection. There will be apparatus for electrical treatment. Abno sinks, water closets or other plumb- sorbent cotton and sterilized games are ing near this room, those necessaries be- | kept in closed giam receptaries ready my located in connectors with the ero. for instant use. Sponges are kept in a room will be made as sweet and clean | enturing wounds there are glass tubes will be one of the famous Morrie-Ede- valuable as being an animal substance, bold tables, made of plate glass and It is absorbed by the surrounding tisrivet or a boil is to be seen. The the necessity for saking out the attehes

OUT OF THE EARTH ing constituents: Water, 19 parts in 100; hose, 32.67; sulphuric soid, 44.44; for the mixing being given on each package. The shades in use in alabasing only to be sprinkled on the sponge of the continuous continuo

Vials of Restoratives.

With the drugs which bring painless sleep are the little vials of restoratives should that slumber prove too deep. Even a pair of tongue forceps are not forgotten lest the patient "swallow his tongue" and die from suffocation. Before the capital operation the aur-

geon and his assistants scrub their hands and forearms with antiseptic

sospsuds for ten minutes by the clock

That there shall be no chance to slight staff have been untiring in their efforts the job a stiff brush is used. Then the members are plunged into a disenfect-ant solution, after which both nurses and doctors are ready for business. All the handles to the water receptacles etc, are wound with the disenfectant gaure so that after the hands are prepared they may touch nothing unclean. The operating table, the stand used for necessary purposes. The whereon the attendant nurses places rom formerly used as an operating the surgical tools, are all made aseptic. An immense amount of material is hospitals purchase game by the thous-and yards direct from the manufactures and absorbant cotton is bought in hundred pound lots; yet it has to be replenished every few weeks. Hospital needs are imperative and must be met on the instant, whether there is a surplus in the treasury or not. This

ly made. The staff of St. Mark's at present consists of the following:

explains why demands are so constant-

Trustees-The Rev. Campbell Fair, president; E. Crofton Fox, treasurer; Edwin S. Morey, secretary; Willard Barnhart, Samuel Secor, Dr. George K. Johnson, Charles S. Hazeltine and Anton G. Hodenpyl.

Board of Managers-Mesdames C. H. Granger, E. D. Collins, P. R. L. Pierce, W. R. Sheiby, Joseph Penny, A. J. Bowne, C. S. Hazeltine, J. Edward Earle, W. F. Buckley, E. P. Fuller, Campbell Fair, S. P. Wormley, A. E. Worden, F. A. Gorham, F. Letellier, J. G. MacBride, J. J. O'Brien, A. G. Hod-enpyle, F. A. Maynard, B. R. Pierce. Staff-G. H. Johnson, president; S. R. Wooster, vice president; R. J. Kirkland, secretary.

Medicine, Visiting—C. H. Johnson, J.
A. DeVore, Henry Kulst.
Consulting—Arthur Hazelwood, J. B.
Griswold, J. Orton Edic, C. M. Droste,

Benjamin Pyle. Surgery-Visiting-Perry Schu rtz, S C. Groves, Hugo Lupinski. Consulting-G. K. Johnson, John Brady, S. R. Wooster, W. H. De Camp. F. J. Groner. Gynenology-Visiting-Engene Boise,

Emma Wanty, Renben Peterson. Consulting-Charles Shepard. Eye, ear, nose and throat-Visiting-R. J. Kirkland, D. E. Weich, D. M.

Obstetrics and Pediatrics-Visiting-Bessie Earle, W. H. White, R. H. Spen-Consulting—F. A. Rutherford, T. D. Bradfield, G. B. Miller, A. J. Pressey. Pathologist—Hugo Lupinski.

A PROUD PRINCESS.

She Refused to Offer Any Token of Re-

spect to the English Queen, It is told of the beautiful Princess first brought to England she refused to allow herself to be presented to Queen Victoria, saving, to the horror of her attendants, that the caste of her race forbade her to look upon her inferiors. It was only by persistent entreaties that the proud little beauty could be induced to obey the queen's summons to Windsor, and even when she did deign to confront her majesty nothing could induce her to offer the slightest token of respect for the sovereign of the peo ple who had deposed the hereditary rulers of India. At first glance one might well be surprised at the little resemblance of an Indian princess in the dermatologist, B. S. Zudzense, Sparta. attire, if not in the features, of this charming scion of eastern royalty Delhi, however, long since yielded to the forms of western civilization, and is to-day a thoroughly Europeanized

city as a result of British rule. Shah Jehan, in 1631, built the present city, close to the old Delhi, and made it the royal residence. The Mohammedans still call it Shahjebanabad, the "City of the King of the World." Nadir Shah, the Persian usurper, capder to the value of nearly one hundred million dollars, including the famous peacock throne and the great Koh-inoor diamond, now in the possession of the British crown. The British first came into control in 1803, when the Mahratias were defeated near Delhi by Lord Lake. When the sepoy mutiny broke out in 1857 Shah Mohammed Bahadour, then ninety years old, took command of the city, and until the English again triumphed enjoyed the imperial state to which he had long been a stranger.

BREAD FROM WOOD.

Two years ago Victor Meyer, the em-

inent author and lecturer of Heidelburg, Germany, in a public address delivered before the students of the university at that place, said: "Chemistry is the great unraveler, the revealer of hidden mysteries. \* \* We may even reasonably hope that ere long it will teach us to make the fiber of wood a the altar cannot be magned, and it source of human food. The fiber of wood consists essentially of cellulin; have all the home deparations in pure can this be made into starch? If it can the food problem of the nation is forever solved. Starch has about the same percentage composition, etc., wherever proporties, and the nature of its molecules has always been one of the greatest enigmas to the chemist. But a new era is dawning: we are beginning to read cellulin molecules like as open book, and I would not be at all surprised to hear that some savant had manufactured a nice food from what was once the most muculy elements.

industriously worked to prove have, if the popular scientific writers from celluits and bread from the wall known. to be more nutritions than that made from ofther baries or eye. If this is all

## FOR THE FAIR SEX

Telling a Woman's Character by Her Hair.

WOMAN'S OBJECT IN WEEPING

Sometimes It Is Sentiment and Some times to Achieve a Purpose-Weman's Sympathy for Woman.

And now they are saying that a close

examination of a woman's hair will disclose her character. If the hair shows much care, is glossy, well kept with every pin in its place, you may rely upon it she is a lady born and bred. Her maid may have arranged it or her own deft hands may have fashtoned the glossy tocks into braids, it matters not, the character shows. Gloss comes only from constant attention and the woman of innate refinement is the one who hingers over her toilet and bestows care on the extra touches. Coarse hair is said to show a coarse nature and numble birth. Fine, thin hair indicates a good disposition. Hair that splits on the end shows a tendency in the owner to quarrel, bicker and enter into differences on all occasions. Black, glossy hair shows treachery; blond, fluffy hair shows vanity and weakness; red hair shows truthfulness, but a fiery temper; "drab" hair, common among the women of New England, shows a highly sensitive, nervous disposition. Thick, kinky hair also in dicates coarseness, and smooth brown hair shows refinement. In these days when palmistry has gone out of date the study of the disposition by the close inspection of woman's glory is attaining the dignity of a fad, but there are several ways of bailling the would-be student of human nature. The bair may be frizzed, curied, crimped and banged until all its natural features are lost, or it may be bleached, brondined or dyed until most any color but the natural one appears. Strange as it may appear locality seems to have some uffuence on the growth of the hair. It well known that many of the women of the northeastern states have thin pair with aimost baid temples winle southern women are noted for their thick, handsome locks, which in many instances reach their knees and ofter touch the ground. In contradiction of the theory that only refined women have glossy hair it may be observed that Holland working women, fresh from plowing the fields of the old country. are blessed with glossy locks which are so smooth that they appear to be glued to the scalp.

It is said that women have more sensibility than men because of their tendency to irritability—not an altogether happy explanation. In the early life of the temale portion of humanity courage was a notable characteris tic, but tears were also at her command and she early learned their power and value. When a woman weeps it is said to be hard to tell how many tears are due to suffering and ow many flow because the mands that they shall. Tears may often be ascribed to policy, a desire to attain some stated object, or carry a point. Right here it may be stated that women of deep feeling do not weep easily or often. With hem tears are stirred into action by violent emotions only and their coming is attended by great mental and physical exhaustion. The woman whose tears come with slight provocation does not need a great amount of sympathy. Very often her woes are purely imaginary.

tion that women are hard upon other is almost without foundation. There are two classes of women who are prone to be severe in their judgment of their sisters. To the first be long those who owing in part to temperament and part to environment have never come face to face with genuine temptation, and hence find it impossible to understand bow another can yield to temptation. second class belong those who are goaded by a consciousness of their own short comings and are ever on the alert to discover weaknesses in others. Exponents of these two classes are found in all grades of socitured it in 1789, massacred thousands ery and in every community, but they of the inhabitants and bore away plus- are not numerous. The world, notably, the social world, is full of true women, women with pity and symps thy in their hearts for the entire sister hood of women. They are ready at all times to rebuke the slanderer, nor will they at any time listen to petty, yet vicious gossip. They urge gentlement and forbearance toward the weak and erring, plead the caum of the oppressed gently, yet firmly. Never in the world's history have woman's relations to woman been so cordial and pleasant as now. The long crusade in behalf of by all and not suppresful as yet has been drawing women to a better unde standing of each ciber, into broader and kindler sympathy, as is shown by the fact that in these days it is woman that is freaching out the helping band

Such a brightening as local society two. The Darnhart-Cody wedding, of which a complete account appeared in THE HERALD Of Wednesday, September 25, is now but a pleasant memory. A more beautiful moture than that presented by the bridal party before was a protty conceil of the bride's to wendings and "pink" weddings, and various other weddings, but the Barnhart-Cody wedding is the first to throw pure white decorations in every roo The german given the preceding might by Miss Waters at Cakburst was not isoking in solor, everything being in an exquisite stude of pink. The favors, hand-painted pink hearts, with curid decorations and gold margina, were very beautiful. Many of the designs were copied from sections of the clatrate freeco of the Ponce de Leon bothi at St. Augustino, Pla. There were hearts which showed the willy cupid fishing, while another represented him in tuning costome and shout to let an arrow Sy. All were teer profits, and were expented by Mrs. A. S. Tor. are to be relied upon, made corn starch say, whose talent in water points is

The marriage of Frank H. Irish, the